



Technical Data Sheet for TIGRE Natural Cement

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TIGRE Slow Natural Cement

Packaging: Pallet of 64 bags @ 17 Kg. each, approximately one metric ton. Bulk packaging available.

Manufacture: TIGRE Natural Cement is produced in an entirely traditional manner from the calcining of clayey limestones [marls], at temperatures between 900°C and 1200°C without chemical additives. Subsequently, the lime is quenched.

Properties: Excellent hydraulic properties that allow working with the product in high humidity environments and being able to set under water, is very suitable for underwater works. Additionally, it possesses inherent resistance to acidic and sulfate attack.

Application: Masonry.

Technical Data Sheet in conformity to UNE 80309.

Mechanical Resistance

Compressive strength @ 1 day [Mpa]	≥2
Compressive strength @ 7 days [Mpa]	≥5
Compressive strength @ 28 days [Mpa]	≥8

Setting

Initial Setting (after):	10 minutes
Final Setting (before):	120 minutes

Physical Characteristics

Maximum fineness of 160 µm grinding sieve	17
Maximum fineness of 80 µm grinding sieve	35

Chemical Characteristics

Calcium Oxide (CaO)	≥ 45 %
Silica Dioxide (SiO ₂)	≥ 18 %
Iron Oxide (Fe ₂ O ₃)	≥ 2 %
Aluminum Oxide (Al ₂ O ₃)	≥ 5 %
Sulfate (SO ₃)	≤ 4 %
Lost by Calcination (PF)	≤ 16 %
Insoluble Residue (RI)	≤ 10 %
Ratio Al ₂ O ₃ / Fe ₂ O ₃	≥ 2



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Applications:

Various masonry works.

- ✓ **Masonry works such as plastering, brick and concrete masonry, etc.**
- ✓ **Mortar for setting rustic ceramic and stone floor tiles in interior or exterior.**
- ✓ **Restoration of estates, churches, country houses, ramparts, castles, etc.**

Uses

Mixing: Mix one part lime to 3 parts sand by volume. Continue mixing by pouring water into a container and adding the dry mixture of lime and water gradually until a homogeneous mortar is obtained. The mixing can be done mechanically or manually. Do not retemper the mortar once it has begun to set.

Application: The supporting surface must be clean and stable before the application of the mortar. Perform a cleaning of surfaces that completely eliminates any residues that could damage the adhesion of the product. It is essential to always resist the supporting surface before applying the mortar.

REGULATION: The current structural concrete standards do not include this cement, so it is in no case to be specified or used for structural purposes.

Additional Comments

Storage: Store in a dry place safeguarded from humidity for up to 6 months.

Disclosure: The information provided in this technical data sheet is based on the data we had available as of the publication date and the result of our internal tests under certain climatic conditions.

It is the responsibility of the user to adopt the appropriate precautionary measures and assess in each case whether it is appropriate or not for the intended use, assuming all responsibility that may derive from the use of the product.

The information presented in this file should not be considered exhaustive. Request the safety data sheet if necessary.